

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) ~~An~~ The oral hygiene product for human and animal use with a melatonin base as an active product to be used a tooth pastes, mouthwashes or animal feeds, comprising characterised by preparing the tooth paste using a hydrophilic excipient, a hydrophobic excipient and ~~hydrophile and hydrophobe bases or excipients suitable to be used in preparing a tooth paste and/or mouthwash in the master formulation and industrial preparation, including melatonin in a proportion of 0.1% to 5% in tooth pastes and/or mouthwashes as well as in animal feeds.~~

2- (Currently Amended) ~~The oral hygiene product for human and animal use with a melatonin base as an active products, according to the first claim, characterised because to avoid auto-oxidation of the melatonin each preparation includes an~~ according to claim 1, further comprising a colourless, thermostable, non toxic, non volatile, non irritating an active auto-oxidant ~~in low concentration and with a broad pH range, soluble in the medium in which it is used and colourless, thermostable, non toxic, non irritant and non volatile. These may be sodium sulphite and bisulphate, ascorbic acid, hydroquinone, nipagin, vitamin E, vitamin A. Its effectiveness can be increased with the use of synergic substances such as citric and tartaric acids, as well as EDTA.~~

3- (Currently Amended) The oral hygiene product according to claim 1, further comprising a preservative. ~~for human and animal use with a melatonin base as an active product, according to the previous claims, characterised because preservative must be added to avoid degradation by~~

~~microbiotic contamination. The preservative used must not be toxic, be chemically stable and compatible with melatonin. These may be benzoic acid, salicylic acid, sorbic acid and essential oils.~~

4- (Currently Amended) The oral hygiene product according to claim 1, wherein the melatonin is ~~for human and animal use with a melatonin base as an active products, according to the previous claims characterised because the general formula of the melatonin as an active products is:~~

———— Melatonin:  
N-acetyl-5-metoxitripamine

5. (New) The oral hygiene product according to claim 1, further comprising an active auto-oxidant selected from the group consisting of sodium sulphite, sodium bisulfate, ascorbic acid, hydroquinone, nipagin, vitamin E, and vitamin A.

6. (New) The oral hygiene product according to claim 1, further comprising a preservative selected from the group consisting of benzoic acid, salicylic acid, sorbic acid, and essential oils.